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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2011; month=3; day=9; hr=14; min=5; sec=59; ms=72; ]

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Application No: 10589054 Version No: 3.0

**Input Set:**

**Output Set:**

**Started:** 2011-03-01 15:03:56.698  
**Finished:** 2011-03-01 15:04:04.101  
**Elapsed:** 0 hr(s) 0 min(s) 7 sec(s) 403 ms  
**Total Warnings:** 136  
**Total Errors:** 217  
**No. of SeqIDs Defined:** 138  
**Actual SeqID Count:** 138

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W 402	Undefined organism found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
E 257	Invalid sequence data feature in <221> in SEQ ID (5)
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E 257	Invalid sequence data feature in <221> in SEQ ID (5)
E 257	Invalid sequence data feature in <221> in SEQ ID (5)
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W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
E 257	Invalid sequence data feature in <221> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
E 257	Invalid sequence data feature in <221> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)

### Input Set:

### **Output Set:**

**Started:** 2011-03-01 15:03:56.698  
**Finished:** 2011-03-01 15:04:04.101  
**Elapsed:** 0 hr(s) 0 min(s) 7 sec(s) 403 ms  
**Total Warnings:** 136  
**Total Errors:** 217  
**No. of SeqIDs Defined:** 138  
**Actual SeqID Count:** 138

**Input Set:**

**Output Set:**

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**Finished:** 2011-03-01 15:04:04.101  
**Elapsed:** 0 hr(s) 0 min(s) 7 sec(s) 403 ms  
**Total Warnings:** 136  
**Total Errors:** 217  
**No. of SeqIDs Defined:** 138  
**Actual SeqID Count:** 138

Error code	Error Description
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SEQUENCE LISTING

<110> SOARES, CHRISTOPHER J.

HANLEY, MICHAEL R.

LEWIS, DIANA YVONNE

PARKES, DAVID GEOFFREY

JODKA, CAROLYN MARIE

PRICKETT, KATHRYN S.

GHOSH, SOUMITRA

MACK, CHRISTINE MARIE

LIN, QING

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THEM

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<141> 2011-03-01

<150> PCT/US05/004631

<151> 2005-02-11

<150> 60/550,447

<151> 2004-03-03

<150> 60/543,275

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of substitutions and preferred embodiments

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